



**TROPICAL CYCLONE BULLETIN NO. 19**

**Typhoon BETTY (MAWAR)**

Issued at 5:00 PM, 31 May 2023

Valid for broadcast until the next bulletin at 11:00 PM today.

**TYPHOON BETTY CONTINUES TO ACCELERATE NORTHWARD OVER THE SEA EAST NORTHEAST OF BATANES**

<b>Location of Center (4:00 PM)</b>	
The center of the eye of Typhoon BETTY was estimated based on all available data at <b>410 km East Northeast of Itbayat, Batanes (22.4°N, 125.4°E)</b>	
<b>Intensity</b>	
Maximum sustained winds of <b>120 km/h</b> near the center, gustiness of up to <b>150 km/h</b> , and central pressure of <b>970 hPa</b>	
<b>Present Movement</b>	
Northward at <b>15 km/h</b>	
<b>Extent of Tropical Cyclone Winds</b>	<p><b>Strong to typhoon-force winds</b> extend outwards up to <b>550 km</b> from the center</p>

**TRACK AND INTENSITY FORECAST**

Date and Time	Center Position			Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)	Location	MSW (km/h)	Cat.	
<b>12-Hour Forecast</b> 2:00 AM 01 June 2023	23.3	125.4	460 km Northeast of Itbayat, Batanes	110	STS	N 10
<b>24-Hour Forecast</b> 2:00 PM 01 June 2023	24.9	126.2	640 km Northeast of Itbayat, Batanes	110	STS	NNE 15
<b>36-Hour Forecast</b> 2:00 AM 02 June 2023	26.1	127.6	835 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	100	STS	NE 15
<b>48-Hour Forecast</b> 2:00 PM 02 June 2023	27.0	129.6	1,050 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	95	STS	ENE 20
<b>60-Hour Forecast</b> 2:00 AM 03 June 2023	27.9	132.0	1,300 km Northeast of Extreme Northern Luzon (OUTSIDE PAR)	85	TS	ENE 20

Prepared by: **JEMB**

Checked by: **SFD**



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TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT			
TCWS No.	Luzon	Visayas	Mindanao
<b>1</b> Wind threat: <b>Strong winds</b>	<b>Batanes and the eastern portion of Babuyan Islands</b> (Calayan Is., Babuyan Is., and Camiguin Is.)	-	-
	Warning lead time: <b>36 hours</b> Range of wind speeds: <b>39 to 61 km/h (Beaufort 6 to 7)</b> Potential impacts of winds: <b>Minimal to minor threat to life and property</b>		

HAZARDS AFFECTING LAND AREAS
<p><b><u>Heavy Rainfall Outlook</u></b></p> <p><b>Forecast accumulated rainfall from today to tomorrow afternoon</b></p> <ul style="list-style-type: none"> <li>• <b>100-200 mm:</b> La Union and Benguet.</li> <li>• <b>50-100 mm:</b> Ilocos Norte, Ilocos Sur, and Abra.</li> </ul> <p>Under these conditions, <b>flooding and rain-induced landslides are possible</b>, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities that experienced considerable amounts of rainfall for the past several days.</p> <p><b>For more information on the areas affected by occasional to frequent rains from the Southwest Monsoon enhanced by BETTY, refer to the Weather Advisory #5 for Southwest Monsoon issued at 11:00 AM today and the 24-Hour Public Weather Forecast at 4:00 PM today.</b></p> <p><b><u>Severe Winds</u></b></p> <ul style="list-style-type: none"> <li>• <b>Wind Signal in some areas of Luzon have been lifted.</b></li> <li>• Minimal to minor impacts from strong winds (i.e., strong breeze to near gale strength) are also possible within any of the areas where Wind Signal No.1 is currently in effect.</li> <li>• The <b>enhanced Southwest Monsoon</b> will bring <b>occasional to frequent wind gusts</b> over Bicol Region, Western Visayas, Aurora, Quezon, MIMAROPA, Ilocos Region, Cordillera Administrative Region, and Cagayan Valley that are not under any Wind Signal.</li> </ul>
HAZARDS AFFECTING COASTAL WATERS
<p>Under the influence of Typhoon BETTY and the enhanced Southwest Monsoon, a <b>marine gale warning remains in effect</b> over the seaboard of Northern Luzon, eastern seaboard of Central Luzon, Southern Luzon, and Visayas. For more information, refer to <b>Gale Warning #9</b> issued at 5:00 PM today.</p>

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#### TRACK AND INTENSITY OUTLOOK

- Typhoon BETTY is forecast to gradually accelerate today through tomorrow while moving generally northward over the waters east of Batanes, although some wobbling in its movement (e.g., sudden turns to the north northeast or north northwest) is possible in the near term (e.g., next 12 hours). Afterwards, the typhoon will turn more northeastward beginning tomorrow afternoon. On the forecast track, BETTY will exit the Philippine Area of Responsibility (PAR) tomorrow afternoon or evening. Outside the PAR, the tropical cyclone will pass very close or make landfall in the vicinity of central Ryukyu Islands by Thursday evening or Friday early morning (e.g., Okinawa Is.)
- BETTY is forecast to steadily weaken over the next five days due to cooler ocean waters (caused by upwelling of cooler waters in its wake), dry air intrusion, and increasing vertical wind shear. The typhoon may be downgraded into a severe tropical storm tonight or tomorrow morning and into a tropical storm on Friday evening or Saturday morning. However, given the extent of the effect of dry air intrusion on the typhoon, a **faster weakening rate within the forecast period is not ruled out**. BETTY may begin its transition into a post-tropical cyclone on Saturday or Sunday, although this will occur outside the PAR region.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 11:00 PM today.

**DOST-PAGASA**

Prepared by:  **JEMB**

Checked by:  **SFD**